Grade K Mathematics Item Specifications



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Introduction

In 2014 Missouri legislators passed House Bill 1490, mandating the development of the Missouri Learning Expectations. In April of 2016, these Missouri Learning Expectations were adopted by the State Board of Education. Groups of Missouri educators from across the state collaborated to create the documents necessary to support the implementation of these expectations.

One of the documents developed is the item specification document, which includes all Missouri grade level/course expectations arranged by domains/strands. It defines what could be measured on a variety of assessments. The document serves as the foundation of the assessment development process.

Although teachers may use this document to provide clarity to the expectations, these specifications are intended for summative, benchmark, and large-scale assessment purposes.

Components of the item specifications include:

Expectation Unwrapped breaks down a list of clearly delineated content and skills the students are expected to know and be able to do upon mastery of the Expectation.

Depth of Knowledge (DOK) Ceiling indicates the highest level of cognitive complexity that would typically be assessed on a large scale assessment. The DOK ceiling is not intended to limit the complexity one might reach in classroom instruction.

Item Format indicates the types of items used in large scale assessment. For each expectation, the item format specifies the type best suited for that particular expectation.

Text Types suggests a broad list of text types for both literary and informational expectations. This list is not intended to be all inclusive: other text types may be used in the classroom setting. The expectations were written in grade level bands; for this reason, the progression of the expectations relies upon increasing levels of quantitative and qualitative text complexities.

Content Limits/Assessment Boundaries are parameters that item writers should consider when developing a large scale assessment. For example, some expectations should not be assessed on a large scale assessment but are better suited for local assessment.

Sample stems are examples that address the specific elements of each expectation and address varying DOK levels. The sample stems provided in this document are in no way intended to limit the depth and breadth of possible item stems. The expectation should be assessed in a variety of ways.

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Frequently asked questions for Item Specification and Sample Stems

1. What is the purpose of the Item Specification document?

Historically, Item Specification documents are written for test item writers. In Missouri, this document was seen as a resource for not only item writers, but teachers as well. The unwrapped section should provide more detail on the meaning of the standard and the sample stems should provide example items that also help clarify the standard. In this update, the language used in the Expanded Expectations document was included to merge the two documents for easier access. In some standards a "Notes" section was added to provide additional information.

2. Why do some unwrapped sections have the same few sentences at the beginning?

For standards that have multiple parts and are listed as sub expectations, e.g., NF.C.5.b, the first part highlights the intent of that standard series. Often, these standards should be taught together as they develop a bigger idea or concept.

3. Why is the Fluency definition only on some standards?

Certainly, students having experience using different strategies and picking the strategy they feel best for given situations is important to improving student knowledge in mathematics. The Missouri Educators working on the document felt it important to highlight areas where student access to multiple strategies would provide the greatest support. Listing fluency in all standards would likely lessen the impact needed.

4. What does the "e.g." mean when listed in the unwrapped section?

The "e.g." is a way to highlight a list of examples, ideas, or concepts. It is **not** an exhaustive list, nor is it intended to represent the best examples. It is merely a partial list to provide some examples.

5. What does "with or without context" mean?

This phrase was used to highlight that the math problems might have some situational context or could possibly be a strictly number or symbol situation. The Educators working on this update wanted the focus to be on using math to solve problem situations rather than a focus on "real world" problems.

6. Are the Sample Stems examples of summative test items?

The Sample Stems could be a classroom item or possibly an assessment item. In some cases, the problem used would have to be adjusted to use on a Statewide assessment. The goal was to give students and teachers a problem that aligns to the standard. The Stems provided in the document are an example. The educators assisting with the update in some cases created more than one example and those are listed at the bottom of the document. All examples are good, some fit better on the page within the Item Specification which have determined those shown in both places.

7. Why are there no answers listed with the Sample Stems?

The focus of the Sample Stems should be on the work students can demonstrate to indicate their level of understanding for the given standard. While the answer is one component, when given, it frequently becomes the focus which does not provide important information in the learning process.

8. What does "No Limits" mean in the Limits and Boundaries section?

Where there are no limits or boundaries to be listed, "No Limits" was used to indicate this situation and help those using the document understand that it wasn't an oversight. IMPORTANT NOTE: if the standard itself or the cluster heading lists a specific limit, e.g., specific denominators, size or type of number, that was not duplicated in the Limits section.

9. Why do some words show a short definition?

While this does not serve as a replacement for a glossary, there were terms within the unwrapping that the committee felt should have meaning included. This occurs in the standard where it specifically addresses the concept in the standard, e.g., cardinality, trapezoid.

10. Why are Kindergarten and Grade 1 Sample Stems a bit different?

Students in Kindergarten and Grade 1 are beginning readers, so teachers should expect to read problems to the students rather than only providing problems to be solved.

NS Number Sense Know the number names and the count sequence Count to 100 by ones and tens. Expectation Unwrapped – the intent of this section is to describe the elements of the expectation, but are NOT additional standards or expectations. Start counting from 1 and count sequence Start counting from 1 and count sequence of the expectation of the exp
A Know the number names and the count sequence Count to 100 by ones and tens. Expectation Unwrapped – the intent of this section is to describe the elements of the expectation, but are NOT additional standards or expectations. Start counting from 1 and counting f
Count to 100 by ones and tens. Expectation Unwrapped – the intent of this section is to describe the elements of the expectation, but are NOT additional standards or expectations. Sample Stems Start counting from 1 and cou
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additional standards or expectations. Start counting from 1 and cou
additional standards or expectations. Start counting from 1 and cou
Start counting from 1 and cou
The student will count verbally to one hundred by ones (starting at one) and tens (starting at ten). Rote counting is an far as you can.
initial step to understanding the base-ten number system.
Count by tens to 100 starting a
Additional Stems for Kinderga
Found at End of Document
Suggested Local Assessment Content Limits/Boundaries- Classroom Work Should Extend Beyond These Limits Calculator Designation
No Limits. NO — a calculator will no available for items
available for items
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	Mathematics	K.NS.A.2
NS	Number Sense	
Α	Know the number names and the count sequence	
2	Count forward beginning from a given number between 1 and 20.	
Ехре	ctation Unwrapped – the intent of this section is to describe the elements of the expectation, but are NOT additional standards or expectations.	Sample Stems
The stud	lent will verbally count on by ones within 20, starting from any given number.	Start counting at 12 (for example) and count until I tell you to stop.
Note: The stud	lent needs to develop an understanding of the sequence of numbers regardless of the starting value.	
		Additional Stems for Kindergarten Found at End of Document.
Sug No Limit	gested Local Assessment Content Limits/Boundaries- Classroom Work Should Extend Beyond These Limits s.	Calculator Designation NO – a calculator will not be available for items
DOK Cei	ling: 2	
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	Mathematics	K.NS.A.3
NS	Number Sense	
Α	Know the number names and the count sequence	
3	Count backward from a given number between 10 and 1.	
Expe	ctation Unwrapped – the intent of this section is to describe the elements of the expectation, but are NOT additional standards or expectations.	Sample Stems
	additional standards of expectations.	Count backwards starting at 8 and
The stud	ent will count backward by ones from a given number between ten and one.	stopping at 3.
		Additional Stems for Kindergarten
C	and the self Accession and Contact Limits / Down desires. Cleans and World Cheveld Entered Down and These Limits	Found at End of Document.
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110 2		available for items
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	Mathematics	K.NS.A.4
NS	Number Sense	
Α	Know the number names and the count sequence	
4	Read and write numerals and represent a number of objects from 0 to 20.	
Expe	ctation Unwrapped – the intent of this section is to describe the elements of the expectation, but are NOT	Sample Stems
	additional standards or expectations. ent will read and write numerals from zero to twenty, and represent a number of objects with a written numeral o to twenty (with zero representing a count of no objects). The student is not expected to read number words, ur".	What is the number name for the numeral below?
	refers to the written symbol used to name a number. Number is a mathematical idea concerning the amount d in a set (cardinality).	
<u>Sugg</u> No Limit	gested Local Assessment Content Limits/Boundaries- Classroom Work Should Extend Beyond These Limits s.	Additional Stems for Kindergarten Found at End of Document. Calculator Designation NO — a calculator will not be available for items
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Jidae	Mathamatica	V NC D F
	Mathematics Mathematics	K.NS.B.5
NS	Number Sense	PRIORITY STANDARD
В	Understand the relationship between numbers and quantities: connect counting to cardinality.	
5	Say the number names when counting objects, in the standard order, pairing each object with one and only	one number name and each number
	name with one and only one object.	
Expe	ctation Unwrapped – the intent of this section is to describe the elements of the expectation, but are NOT	Sample Stems
	additional standards or expectations.	
		Count aloud the objects in the tray.
	ent will demonstrate a one-to-one correspondence when counting objects. The student will say the number	
	sequence, keeping one-to-one correspondence between counting words and objects (one number word for	Teacher action: Provide the student
each obj	ect). The student will stop when they have counted all objects.	with a tray containing an unknown
NI - I -		number of objects. Ask the student to count the objects aloud. Observe
Note:	s of this standard is to connect rate counting to cardinality (the last number name said in counting tells the	the student to see if they can match
	s of this standard is to connect rote counting to cardinality (the last number name said in counting tells the of objects counted). The use of manipulatives is vital to developing this understanding.	the number name with the object
Hullibei	of objects counted). The use of manipulatives is vital to developing this understanding.	being counted in sequential order.
		sem g counted in sequential or deri
		Additional Stems for Kindergarten
		Found at End of Document.
	rested Local Assessment Content Limits/Boundaries- Classroom Work Should Extend Beyond These Limits	Calculator Designation
	s to no more than 20 objects.	NO – a calculator will not be
i ne obje	cts do not need to be placed in an arranged order.	available for items
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Item For		
iteili FOI	mac.	

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	Mathematics	K.NS.B.6
NS	Number Sense	
B 6	Understand the relationship between numbers and quantities: connect counting to cardinality. Demonstrate that the last number name said tells the number of objects counted and the number of objects arrangement or the order in which they were counted.	ects is the same regardless of their
<u>Expe</u>	ctation Unwrapped – the intent of this section is to describe the elements of the expectation, but are NOT additional standards or expectations.	Sample Stems
is also kr	lent will demonstrate that rearranging a known number of objects does not affect the number in the set, which nown as number conservation. of manipulatives is vital to developing this understanding.	How many objects are on the tray? Teacher action: Provide the student with a tray containing an unknown number of objects. Ask the student to count the objects, then share the total number from their tray.
<u>Sugg</u> No limit.	gested Local Assessment Content Limits/Boundaries- Classroom Work Should Extend Beyond These Limits	Additional Stems for Kindergarten Found at End of Document. Calculator Designation NO — a calculator will not be available for items
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Grauc	Rindergarten Mathematics	
	Mathematics	K.NS.B.7
NS	Number Sense	
В	Understand the relationship between numbers and quantities: connect counting to cardinality.	
7	Demonstrate that each successive number name refers to a quantity that is one larger than the previous number	r.
Expe	ctation Unwrapped – the intent of this section is to describe the elements of the expectation, but are NOT	Sample Stems
	additional standards or expectations.	·
		Build towers of blocks from 1 to 20
	lent will demonstrate that each successive number name refers to a quantity that is one more than the previous	by following this pattern and place a
number.		number card under each tower.
Students	s should be able to do this visually and verbally using different representations, e.g., sets of objects, counters,	
	en frames, number paths.	- $+$ $+$
Note:		1 2 3
The focu	is in kindergarten is to understand the quantities and relationships of numbers one through twenty.	
		Possible questions for students:
		What do you notice? What do you wonder?
		How do the towers change?
		As you add a block, what happens?
		Why?
		Additional Stems for Kindergarten
		Found at End of Document.
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	Mathematics	K.NS.B.8
NS	Number Sense	PRIORITY STANDARD
В	Understand the relationship between numbers and quantities: connect counting to cardinality.	
8	Recognize, without counting, the quantity of groups up to 5 objects arranged in common patterns.	
Ехре	ctation Unwrapped – the intent of this section is to describe the elements of the expectation, but are NOT additional standards or expectations.	Sample Stems
quantity five fram Mathem mathem or adapt The stud	ent will subitize a quantity of up to and including five objects. Subitizing occurs when students recognize the of objects in a group, without counting, when arranged in common patterns, e.g., dice, dominoes, playing cards, es, ten frames, dot cards. atical Fluency is more than a quick answer on some timed test. Students demonstrate Fluency when they do atics using an appropriate strategy in a reasonable amount of time, knowing multiple processes and can apply strategies to find a correct solution. ent will identify and describe multiple strategies to solve problems with or without context involving recognizing tity of objects arranged in common patterns.	How many dots are in this 5 frame? Output Description:
Sugg No Limit	gested Local Assessment Content Limits/Boundaries- Classroom Work Should Extend Beyond These Limits 5.	Additional Stems for Kindergarten Found at End of Document. Calculator Designation NO — a calculator will not be available for items
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Mathematics	K.NS.B.9
	PRIORITY STANDARD
	PRIORITT STANDARD
B Understand the relationship between numbers and quantities: connect counting to cardinality.	
9 Demonstrate that a number can be used to represent "how many" are in a set.	
Expectation Unwrapped – the intent of this section is to describe the elements of the expectation, but are NOT	<u>Sample Stems</u>
additional standards or expectations.	How many items are in this set?
The student will count how many are in a set of twenty or fewer objects. The student will represent the actual count of	Trow many items are in this set:
the set using a number.	Teacher action: provide student, or
	groups of students, with a set of
	objects (20 or fewer), to count and
	verbally indicate the number of objects.
	Objects.
	Additional Stems for Kindergarten
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Sidde	Grade Kindergarten Mathematics		
	Mathematics	K.NS.C.10	
NS	Number Sense	PRIORITY STANDARD	
С	Compare Numbers		
10	Compare two or more sets of objects and identify which set is equal to, more than or less than the other.		
Expe	ctation Unwrapped – the intent of this section is to describe the elements of the expectation, but are NOT	Sample Stems	
	additional standards or expectations.		
		Compare the two sets and decide	
The stud	ent will compare two or more sets, with no more than ten objects in each group.	which set has the most objects.	
The section		De seeds to esseleia seesse en	
ine stud	ent will identify which set is equal to, more/greater than, or fewer/less than the others.	Be ready to explain your answer.	
Note:		Teacher action: provide student, or	
	s is on understanding the relationship among the quantity of objects; therefore, the use of comparison symbols,	groups of students if working in	
e.g., =, <	or >, is not appropriate.	pairs, with two sets of objects, to	
		count and verbally indicate which	
	natical Fluency is more than a quick answer on some timed test. Students demonstrate Fluency when they do	set has the greater number of	
	atics using an <u>appropriate strategy</u> in a reasonable amount of time, <u>knowing multiple processes</u> and can apply strategies to find a correct solution.	objects.	
or adapt	strategies to find a correct solution.		
The stud	ent will use and explain multiple strategies to solve problems with or without context involving comparing two		
or more	sets of objects.		
		Additional Stoms for Kindorgarton	
		Additional Stems for Kindergarten Found at End of Document.	
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	Mathematics	K.NS.C.11
NS	Number Sense	
С	Compare Numbers	
11	Compare two numerals, between 1 and 10, and determine which is more than or less than the other.	
Expe	ctation Unwrapped – the intent of this section is to describe the elements of the expectation, but are NOT	Sample Stems
	additional standards or expectations.	
	ent will use their knowledge of quantity to compare two different numerals, each within 10, to determine which	to all at the constructions and attention
s more	than or less than the other.	Look at the numbers below. Identify the number that is more than the
Note:		other.
	s is on connecting the numeral as a representation of the number of objects; therefore, the use of comparison	8 3
symbols	is not appropriate.	
		Look at the numbers below. Identify
	refers to the written symbol used to name a number. Number is a mathematical idea concerning the amount	the number that is less than the
containe	d in a set.	other. 6 9
Mathem	atical Fluency is more than a quick answer on some timed test. Students demonstrate Fluency when they do	6 9
	atics using an <i>appropriate strategy</i> in a reasonable amount of time, <i>knowing multiple processes</i> and can apply	
	strategies to find a correct solution.	
	ent will use and explain multiple strategies to solve problems with or without context involving comparing two	
numeral	S.	
		Additional Chamas for Visulance of the
		Additional Stems for Kindergarten Found at End of Document.
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	Mathematics	K.NBT.A.1
NBT	Number Sense and Operations in Base Ten	PRIORITY STANDARD
Α	Work with numbers 11-19 to gain foundations for place value.	
1	Compose and decompose numbers from 11 to 19 into sets of tens with additional ones.	
The stud	ctation Unwrapped – the intent of this section is to describe the elements of the expectation, but are NOT additional standards or expectations. lent will compose and decompose numbers from 11 to 19 into sets of tens with additional ones. Separate ten m the remaining ones, using manipulatives or drawings.	Sample Stems How many tens and ones are in the number 13?
compose addition	ent will demonstrate (verbally and symbolically) an understanding that the numbers from eleven to nineteen are ed of a group of ten and additional one(s). Compose and decompose numbers from 11 to 19 into sets of tens with all ones (separating ten ones from the remaining ones) by using objects or drawings. Understand that these sare composed of one group of ten and one, two, three, four, five, six, seven, eight or nine ones.	
	is the understanding that numbers can be arranged in groups and groups can be counted as units.	
mathem	natical Fluency is more than a quick answer on some timed test. Students demonstrate Fluency when they do atics using an <u>appropriate strategy</u> in a reasonable amount of time, <u>knowing multiple processes</u> and can apply strategies to find a correct solution.	
	lent will use and explain multiple strategies to solve problems with or without context involving composing and osing numbers from 11 to 19.	Additional Stems for Kindergarten Found at End of Document.
Sugg No Limit	gested Local Assessment Content Limits/Boundaries- Classroom Work Should Extend Beyond These Limits s.	Calculator Designation NO – a calculator will not be available for items
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Grade Kindergarten Mathematics		
	Mathematics	K.RA.A.1
RA	Relationships and Algebraic Thinking	PRIORITY STANDARD
Α	A Understand addition as putting together or adding to, and understand subtraction as taking apart or taking from.	
1	Represent addition and subtraction within 10.	
Expe	ctation Unwrapped – the intent of this section is to describe the elements of the expectation, but are NOT	Sample Stems
	additional standards or expectations.	
	ent will use a variety of strategies to represent sums and differences within ten, e.g., objects, fingers, mental drawings, sounds, acting out situations, verbal explanations, or expressions.	Kaleb is trying to represent two numbers that add to 9. He used counters to make his example.
Note:		• • • •
No single	e strategy is recommended over another. Consider the needs of the student.	••••
Mathematical Fluency is more than a quick answer on some timed test. Students demonstrate Fluency when they do mathematics using an appropriate strategy in a reasonable amount of time, knowing multiple processes and can apply or adapt strategies to find a correct solution. The student will use and explain multiple strategies to solve problems with or without context involving representing addition and subtraction within 10.		What are other ways to represent 9? You can use five frames, drawings, or other ways to show a different representation.
		Additional Stems for Kindergarten Found at End of Document.
Sugg No Limit	ested Local Assessment Content Limits/Boundaries- Classroom Work Should Extend Beyond These Limits s.	Calculator Designation NO – a calculator will not be available for items
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Grade Kindergarten Mathematics			
	Mathematics	K.RA.A.2	
RA	Relationships and Algebraic Thinking	PRIORITY STANDARD	
Α	A Understand addition as putting together or adding to, and understand subtraction as taking apart or taking from.		
2	Demonstrate fluency for addition and subtraction within 5.		
Expe	ctation Unwrapped – the intent of this section is to describe the elements of the expectation, but are NOT	Sample Stems	
	additional standards or expectations.	In pairs you will each draw two	
The student will demonstrate fluency for addition and subtraction within five using strategies such as: count all, counting on, counting back, or other strategies. Strategies should be supported using manipulatives, e.g., five frames, rekenreks.		In pairs, you will each draw two cards from your stack. The person with the highest sum wins that round.	
Note:			
The use	of manipulatives is vital to understanding.	Teacher action: provide each student with a set of numeral cards	
Mathem	atical Fluency is more than a quick answer on some timed test. Students demonstrate Fluency when they do	with each student beginning with	
	atics using an appropriate strategy in a reasonable amount of time, knowing multiple processes and can apply	the same number of cards. Have	
or adapt strategies to find a correct solution.		each student place their cards in a pile, face-down in front of them.	
The student will use and explain multiple strategies to solve problems with or without context involving demonstrating fluency for addition and subtraction within 5.		pile, face down in front of them.	
		Additional Stems for Kindergarten	
		Found at End of Document.	
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	Mathematics	K.RA.A.3
RA	Relationships and Algebraic Thinking	PRIORITY STANDARD
Α	Understand addition as putting together or adding to, and understand subtraction as taking apart or	taking from.
3	Decompose numbers less than or equal to 10 in more than one way.	
The stuc	ctation Unwrapped – the intent of this section is to describe the elements of the expectation, but are NOT additional standards or expectations. Lent will decompose (compose) numbers within ten using methods, e.g., manipulatives, drawings, rekenreks, paths, and record each result using a drawing or expression.	Sample Stems I have 10 Skittles. How many could each of my two friends get?
mathem or adapt	atical Fluency is more than a quick answer on some timed test. Students demonstrate Fluency when they do atics using an appropriate strategy in a reasonable amount of time, knowing multiple processes and can apply strategies to find a correct solution. ent will use and explain multiple strategies to solve problems with or without context involving decomposing less than or equal to 10.	
		Additional Stems for Kindergarten Found at End of Document.
	ested Local Assessment Content Limits/Boundaries- Classroom Work Should Extend Beyond These Limits	Calculator Designation
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3.44	Mathematics	K.RA.A.4
D.4		
RA	Relationships and Algebraic Thinking	PRIORITY STANDARD
Α	Understand addition as putting together or adding to, and understand subtraction as taking apart or	taking from.
4	Make 10 for any number from 1 to 9.	
Expe	ctation Unwrapped – the intent of this section is to describe the elements of the expectation, but are NOT	<u>Sample Stems</u>
	additional standards or expectations.	A
The stud	lant will given a number from 1 to 0, determine the missing number needed to make a 10. The student will	A pack of gum has ten pieces of gum when it is full. Ramon's pack has 6
	lent will, given a number from 1 to 9, determine the missing number needed to make a 10. The student will their work through various strategies, e.g. mental math to make 10, drawing, expression, using manipulatives,	pieces. How many are missing?
	frames, rekenreks.	pieces. How many are missing:
0,		
	natical Fluency is more than a quick answer on some timed test. Students demonstrate Fluency when they do	
	atics using an <u>appropriate strategy</u> in a reasonable amount of time, <u>knowing multiple processes</u> and can apply	
or adapt	strategies to find a correct solution.	
The stud	ent will use and explain multiple strategies to solve problems with or without context involving creating 10 using	
	ber from 1 to 9.	
-		
		Additional Stems for Kindergarten
		Found at End of Document.
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No Limit	S.	NO – a calculator will not be
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Grade Kindergarten Mathematics		
	Mathematics	K.GM.A.1
GM	Geometry and Measurement	
Α	Reason with shapes and their attributes.	
1	Describe several measurable attributes of objects.	
Ехре	ctation Unwrapped – the intent of this section is to describe the elements of the expectation, but are NOT	Sample Stems
	additional standards or expectations.	NATIONAL AND
height, o	dent will describe several measurable attributes of an object, using appropriate language, e.g., length, weight, or capacity.	What do you notice about the shape? How many sides does it have? How many corners (angles) do you notice?
Note: The use	of manipulatives is vital to understanding.	
		Additional Stems for Kindergarten Found at End of Document.
Sug No Limit	gested Local Assessment Content Limits/Boundaries- Classroom Work Should Extend Beyond These Limits s.	Calculator Designation NO — a calculator will not be available for items
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	Mathematics	K.GM.A.2
GM	Geometry and Measurement	PRIORITY STANDARD
Α	Reason with shapes and their attributes.	
2	Compare the measurable attributes of two objects.	
Evno	ctation Unwrapped – the intent of this section is to describe the elements of the expectation, but are NOT	Sample Stems
LAPE	additional standards or expectations.	<u>Sample Stems</u>
shorter, Note:	dent will compare the measurable attributes of two objects, using appropriate language, e.g., longer, taller, same length, heavier, lighter, same weight, holds more, holds less, holds the same amount, etc. of manipulatives is vital to understanding.	What do you notice about the two shapes drawn below?
		Teacher actions: other possible questions to ask include, what is alike; what is different; do the shapes have the same number of sides; do the shapes have the same number of angles.
<u>Sug</u> No Limit	gested Local Assessment Content Limits/Boundaries- Classroom Work Should Extend Beyond These Limits s.	Additional Stems for Kindergarten Found at End of Document. Calculator Designation NO — a calculator will not be available for items
DOK Cei	ling: 3 mat: Selected Response, Constructed Response, Technology Enhanced	

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	Mathematics	K.GM.B.3
GM	Geometry and Measurement	
В	Work with time and money.	
3	Demonstrate an understanding of concepts of time and devices that measure time.	
Expe	ctation Unwrapped – the intent of this section is to describe the elements of the expectation, but are NOT	Sample Stems
	additional standards or expectations.	
tomorro	ent will demonstrate an understanding of the concepts of time, e.g., morning, afternoon, night, today, yesterday, w, week, month, and year. The student will demonstrate an understanding of tools that measure time, e.g., lock, digital clock, and calendar.	How do we tell time? What tools do we use to find out what time it is?
		Additional Stems for Kindergarten Found at End of Document.
Sug	gested Local Assessment Content Limits/Boundaries- Classroom Work Should Extend Beyond These Limits	Calculator Designation
The stud	ent is not expected to tell time.	NO – a calculator will not be available for items
DOK Cei	ling: 2	
Item For	mat: Selected Response, Constructed Response, Technology Enhanced	

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	Mathematics	K.GM.B.4
GM	Geometry and Measurement	
В	Work with time and money.	
4	Name the days of the week.	
_		
Expe	ctation Unwrapped – the intent of this section is to describe the elements of the expectation, but are NOT additional standards or expectations.	Sample Stems
	auditional statistical of Superiorisis	What is today? What is tomorrow?
The stud	ent will verbally name the days of the week by rote and/or by cueing from a calendar.	Do you remember what day it was yesterday?
		Additional Stems for Kindergarten Found at End of Document.
Suga No Limit	gested Local Assessment Content Limits/Boundaries- Classroom Work Should Extend Beyond These Limits	Calculator Designation NO – a calculator will not be
INO LIIIIII	s.	available for items
DOK Cei	ling: 1	
Item For	mat:	

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	Mathematics	K.GM.B.5
GM	Geometry and Measurement	
В	Work with time and money.	
5	Identify pennies, nickels, dimes and quarters.	
Free	station Have made the intent of this costion is to describe the planeaute of the supportation but are NOT	Comple Stores
<u>expe</u>	ctation Unwrapped – the intent of this section is to describe the elements of the expectation, but are NOT additional standards or expectations.	Sample Stems
		Tell me the difference between the
The stud	ent will verbally identify pennies, nickels, dimes, and quarters; and identify these coins from pictures and atives.	look of a quarter and a penny.
Note: The use	of manipulatives is vital to understanding.	
The focu	s for Kindergarten is to identify and name the coins, not know the value of the coin.	
		Additional Stems for Kindergarten
Suga	ested Local Assessment Content Limits/Boundaries- Classroom Work Should Extend Beyond These Limits	Found at End of Document. Calculator Designation
No Limit		NO – a calculator will not be
		available for items
DOK Cei	ing: 1	
Item For		

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	Mathematics	K.GM.C.6
GM	Geometry and Measurement	PRIORITY STANDARD
С	Analyze squares, circles, triangles, rectangles, hexagons, cubes, cones, cylinders and spheres.	
6	Identify shapes and describe objects in the environment using names of shapes, recognizing the name stays the s	same regardless of orientation or size.
Expe	ctation Unwrapped – the intent of this section is to describe the elements of the expectation, but are NOT	Sample Stems
	additional standards or expectations.	
		Find a triangle in the classroom.
	ent will identify shapes two-dimensional shapes and three-dimensional objects in their environment using the nathematical vocabulary. The student will recognize that the name stays the same regardless of orientation or	Teacher actions: use other shapes,
size.	iathematical vocabulary. The student will recognize that the name stays the same regardless of offentation of	e.g., a rectangle, point to a circle,
		play "I spy a (name a shape)" and
Note:		encourage students to find it. How
The use of	of manipulatives is vital to understanding.	many can they locate?
		Additional Stems for Kindergarten
Suga	ested Local Assessment Content Limits/Boundaries- Classroom Work Should Extend Beyond These Limits	Found at End of Document. Calculator Designation
No Limit	ested Local Assessment Content Limits/ Boundaries - classroom Work should Extend Beyond These Limits	NO – a calculator will not be
		available for items
DOK Ceil	<u>ing:</u> 2	
Item For	mat: Selected Response, Constructed Response, Technology Enhanced	

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	Mathematics	K.GM.C.7
GM	Geometry and Measurement	
С	Analyze squares, circles, triangles, rectangles, hexagons, cubes, cones, cylinders and spheres.	
7	Describe the relative positions of objects in space.	
Fxne	ctation Unwrapped – the intent of this section is to describe the elements of the expectation, but are NOT	Sample Stems
<u> </u>	additional standards or expectations.	<u> </u>
	ent will describe the relative positions of objects in space using terms such as above, below, besides, in front of, and next to.	Use the design below and put an x under the design.
Note:		
	of manipulatives is vital to understanding.	Teacher actions: provide students with a simple design or this design to place an x under the design. Other options for students to do include putting a circle over the design, draw a check mark on top of, over, under, beside, next to, on, over.
		Additional Stems for Kindergarten Found at End of Document.
	gested Local Assessment Content Limits/Boundaries- Classroom Work Should Extend Beyond These Limits	Calculator Designation
No Limits	S.	NO – a calculator will not be available for items
DOK Ceil	ling: 2	
Item For	mat: Selected Response, Constructed Response, Technology Enhanced	

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	Mathematics	K.GM.C.8	
GM	Geometry and Measurement	PRIORITY STANDARD	
С	Analyze squares, circles, triangles, rectangles, hexagons, cubes, cones, cylinders and spheres.		
8	Identify and describe the attribute of shapes, and use the attributes to sort a collection of shapes.		
Expe	ctation Unwrapped – the intent of this section is to describe the elements of the expectation, but are NOT	<u>Sample Stems</u>	
	additional standards or expectations.	Sort these shapes into those with 3	
Students	will identify and describe the attributes of two-dimensional and three-dimensional shapes. The student will use	corners and those with more than 3	
the attrib	outes to sort a collection of shapes.	corners.	
		Additional Stems for Kindergarten Found at End of Document.	
	ested Local Assessment Content Limits/Boundaries- Classroom Work Should Extend Beyond These Limits	Calculator Designation	
No Limit	S.	NO – a calculator will not be available for items	
DOK Ceil	ing: 2		
	mat: Selected Response, Constructed Response, Technology Enhanced		

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	Mathematics	K.GM.C.9			
GM	Geometry and Measurement	PRIORITY STANDARD			
С	Analyze squares, circles, triangles, rectangles, hexagons, cubes, cones, cylinders and spheres.				
9	Draw or model simple two-dimensional shapes.				
Expe	ctation Unwrapped – the intent of this section is to describe the elements of the expectation, but are NOT	Sample Stems			
	additional standards or expectations.	Box this days			
The stud	lent will draw or model, e.g., using modeling clay, cut-outs, pipe cleaners, to create simple two-dimensional	Draw this shape.			
shapes.	tent will draw of model, e.g., daing modeling elay, eat outs, pipe eleaners, to create simple two dimensional				
		Additional Stems for Kindergarten Found at End of Document.			
	gested Local Assessment Content Limits/Boundaries- Classroom Work Should Extend Beyond These Limits	Calculator Designation			
No Limit	S.	NO – a calculator will not be available for items			
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	Mathematics	K.GM.C.10	
GM	Geometry and Measurement	PRIORITY STANDARD	
С	Analyze squares, circles, triangles, rectangles, hexagons, cubes, cones, cylinders and spheres.		
10	Compose simple shapes to form larger shapes using manipulatives.		
_			
Expe	ctation Unwrapped – the intent of this section is to describe the elements of the expectation, but are NOT additional standards or expectations.	Sample Stems	
	additional standards of corpositions.	Using pattern blocks, how many	
	dent will combine two-dimensional shapes to compose larger shapes, e.g., joining two triangles to make a	ways can you put these two	
rectangl	e, three squares to make a rectangle.	triangles together to form a new shape?	
Note:		shape:	
The use	of manipulatives is vital to understanding.		
		Additional Stems for Kindergarten	
		Found at End of Document.	
Sug No Limit	gested Local Assessment Content Limits/Boundaries- Classroom Work Should Extend Beyond These Limits	<u>Calculator Designation</u> NO – a calculator will not be	
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Item For	mat: Selected Response, Constructed Response, Technology Enhanced		

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	Mathematics	K.DS.A.1			
DS	Data and Statistics				
Α	Classify objects and count the number of objects in each category.				
1	Classify objects into given categories; count the number of objects in each category.				
Ехре	ctation Unwrapped – the intent of this section is to describe the elements of the expectation, but are NOT	Sample Stems			
	additional standards or expectations.	Put the given set of objects into like			
The stud	ent will sort objects into two or three categories, explain the classification, and count the number of objects in egory.	categories. How many objects are in each category?			
Note: The use	of manipulatives is vital to understanding.	Teacher action: provide students with a set of objects like attribute blocks, buttons, or leaves for student use.			
		Additional Stems for Kindergarten Found at End of Document.			
Sugg No Limit	gested Local Assessment Content Limits/Boundaries- Classroom Work Should Extend Beyond These Limits s.	Calculator Designation NO — a calculator will not be available for items			
DOK Ceil	<u>ling:</u> 3				
Item For	mat: Selected Response, Constructed Response, Technology Enhanced				

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	Mathematics	K.DS.A.2
DS	Data and Statistics	PRIORITY STANDARD
Α	Classify objects and count the number of objects in each category.	
2	Compare category counts using appropriate language.	
Expe	ctation Unwrapped – the intent of this section is to describe the elements of the expectation, but are NOT	Sample Stems
	additional standards or expectations.	Using your two categories from
	ent will compare category counts based on a set or group of objects using developmentally appropriate language, ater than, most, more than, less than, fewer than, equal to, same as.	before, how many more red shapes do you have than blue shapes?
Note:		Teacher action: adjust question to
The use	of manipulatives is vital to understanding.	match or fit the given object sets you provide students.
The focu	us is on comparing the quantity of objects; therefore, the use of comparison symbols, e.g., =, < or >, is not iate.	you provide students.
		Additional Stems for Kindergarten Found at End of Document.
	gested Local Assessment Content Limits/Boundaries- Classroom Work Should Extend Beyond These Limits	Calculator Designation
No Limit	S.	NO – a calculator will not be available for items
DOK Cei		
Item Fo	mat: Selected Response, Constructed Response, Technology Enhanced	

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Code	Sample Stem	Explanation
K.NS.A.1	Start counting from 1 and count as far as you can.	Students should not have access to visuals (number line/number path, hundreds chart while counting). Makes decade transitions (e.g., from 29 to 30).
	Count by tens to 100 starting at 10.	
	Start counting at 12 (for example) and count until I tell you to stop.	The teen numbers are difficult for younge students so having them count orally through the teens will ensure they are getting all the numbers. For student experiencing difficulty, provide a number path with the numbers included that they can touch as they count. An enlarged rule also can provide support as they learn these numbers. Suggest to not go above 20 in kindergarten.
K.NS.A.2	Counts forward from 7 to 17.	Students could be directed to coun verbally or by removing objects from a group.
	I'm going to say a number. I want you to count backward from the number until I say stop. (8, stop at 3), (6, stop at 2) (5, stop at 1), etc.	Students should not have access to visual (number line/number path, hundred chart while counting)
K.NS.A.3	Count backwards starting at 8 and stopping at 3.	
	What is the number name for the numeral below? 19	When shown a number, student can sa the number name. When hearing number name, student can write th number.
K.NS.A.4	Using the blocks provided, show 13 blocks. Teacher action: provide students with up to 20 blocks (or available manipulative/object).	When hearing a number name or readin a number name, the student ca represent the quantity with objects.
	Count aloud the objects in the tray.	Provide each student with a different se of manipulatives. Observe how they cour their set. Do they touch each object on
	Teacher action: Provide the student with a tray containing an unknown number of objects. Ask the student to count the objects aloud. Observe the student to see if they can match the number name with the object being counted in sequential order.	at a time as they count? Do they move each one to make a line or group? Do the repeat a number? For example, do the count 12312? Does their finge bounce between the objects so their cour isn't accurate? It is important to hav students work on this one at a time as the information you gather will be important.
K.NS.B.5		

Code	Sample Stem	Explanation
	How many objects are on the tray? Teacher action: Provide the student with a tray	If the student needs to recount the objects before answering your question, that is a red flag. Try the Stem again. If they successfully answer your question, move them around - spread them out or move
K.NS.B.6	containing an unknown number of objects. Ask the student to count the objects, then share the total number from their tray.	them into a much smaller group. Ask them how many there are now? Do they recognize that the number hasn't changed, just the arrangement? Do they need to recount? This activity demonstrates conservation of number—the idea that the number of objects doesn't change just because they are moved around. Redo this activity if they feel the need to recount.
	Count aloud the objects in the tray.	Provide the student with a tray containing an unknown number of objects. Observe the student to see if the count sequence the student gives is in successive order.
	Build towers of blocks from 1 to 20 by following this pattern and place a number card under each tower. 1 2 3	Students need time to develop an understanding of "one more". Allow them to continue this activity over several days and with various manipulatives until they begin to share that a student with one amount can have one more than another, e.g., John has three cookies, but Jen has one more.
V NC D 7	Possible questions for students: What do you notice? What do you wonder? How do the towers change? As you add a block, what happens? Why?	Discuss: "How many cubes are in tower 3? How many more cubes are in tower 4?" This can be done with any number. Do until students make the connection with 1 more.
K.NS.B.7	How many dots are in this 5 frame? Output Output	Show students quick flashes (5 frame cards and dot dice cards) for students to efficiently recognize collections up to 5 (without counting). Student verbally names the number of items.
K.NS.B.8		

<u>e minaciga</u>	rten Mathematics	
	How many dots are in on this card?	Continue working with subitizing on a regular basis. This is a daily routine that can aid with addition and subtraction as
	Teacher action: Alternate using dot cards like the following set.	students move through kindergarten. This is also great for memory practice. Show students a dot card and then have them replicate it on their desktops with counters. Compare the original dot card to their replication.
		Subitize quantities to five in a variety of combinations. When they can identify five regularly, increase the number of dots.
Code	Sample Stem	Explanation
K.NS.B.9	How many items are in this set? Teacher action: provide student, or groups of students, a set of objects (20 or fewer), to count and verbally indicate the number of objects.	After the student counts the quantity in a set, have them orally state or write the amount that answers "how many?".
K.HS.D.S	Compare the two sets and decide which set has the most objects.	When given two sets of objects, the student is able to use "pairing" objects from each set to determine which set has
	Be ready to explain your answer.	more, which set has less, or if the sets are equal.
	Teacher action: provide student, or groups of students if working in pairs, two sets of objects, to count and verbally indicate which set has the greater number of objects.	Students may also count the objects in one set and count the objects in another set to determine which set has more, which set has less. or if the sets are equal.
K.NS.C.10		·
	Look at the numbers below. Identify the number that is more than the other. 8 3 Look at the numbers below. Identify the number	Students may use ten frames and counters to show the numbers to be compared. Students are orally or in writing told which number is more or which number is less.
K.NS.C.11	that is less than the other. 6 9	When shown two numbers, student can orally or in writing tell which is more or which is less.
	How can you compose 8 and 7? Use manipulatives to support your answer.	Given a number, the student can show it in tens and ones using manipulatives, e.g., base ten blocks, ten frames with counters, snap cubes, a number bond.
	How many tens and ones are in the number 13?	Using some manipulative or mathematical structure, like a number bond, with the total known, have the student show or tell the parts in tens and ones
K.NBT.A.1		

	Cample Stam	Evalenation
Code	Sample Stem	Explanation
	There were 5 birds in the tree. 4 more birds joined them. How many birds are in the tree now?	When given a story context (with addition or subtraction), students can represent it with manipulatives or drawings.
	Taylor had 6 pencils. She gave 2 of them to Luke. How many pencils does Taylor have left?	
	Kaleb is trying to represent two numbers that add to 9. He used counters to make his example.	
	What are other ways to represent 9? You can use five frames, drawings, or other ways to show a different representation.	
	How many more counters will Kaleb need to add to get 9?	
K.RA.A.1		
	In pairs, you will each draw two cards from your stack. The person with the highest sum wins that round. Teacher action: provide each student with a set of numeral cards with each student beginning with the same number of cards. Have each student place their cards in a pile, face-down in front of them.	With games like these, the teacher can observe how students solve the problem. Do they count on their fingers, count the dots or symbols on the card? Do they immediately answer and seem to "know" the sum? Is their response immediate or does it take time even though they work through it mentally? Do they need manipulatives to solve it?
K.RA.A.2		
	I have 10 Skittles. How many could each of my two friends get?	When given a determined number of manipulatives (the total), the student can decompose the amount in more than one way (to find the two parts).
		When given a number (the total), the student can decompose it in more than one way (to find the two parts).
		Students need to understand that amounts can be decomposed into two parts and still have the same amount.
K.RA.A.3		

Citiliaciga	irten watnematics	
	Make a cube train of 8 using two colors. Give the	
	number names for your two parts.	
Colle	Consideration of the constant	E alcastica
Code	Sample Stem	Explanation
	How many dots are on this ten frame?	When shown a quantity on a ten frame, student can name the number that when
		added, equals ten.
	Teacher action: provide several examples of ten frames with various numbers of dots for different	NA/lean sirrar a muralean atudanta ann tall
	rounds of this question.	When given a number, students can tell the number that when added, equals ten.
	Tourius of this question.	the number that when added, equals ten.
	A pack of gum has ten pieces of gum when it is full.	
	Ramon's pack has 6 pieces. How many are missing?	
K.RA.A.4	, ,	
	What do you notice about the shape? How many	As students observe the shapes, chart
	sides does it have? How many corners (angles) do	their discoveries. Tell them that these are
	you notice?	parts of the shape we can measure, and
		then discuss how they can be measured. Is
	Teacher action: provide students with a 2-D or 3-D	there any part of the shape that can't be
	shape, e.g., a pattern block.	measured, e.g., color? Take time to discuss
		and explore the shapes, charting observations.
K.GM.A.1		observations.
10.0171.70.2	What do you notice about the two shapes shown	Encourage students to observe the shapes
	below?	carefully, noting differences between the
	A 🗔	two shapes. Students who are unfamiliar
	/ \	with the shapes or the vocabulary used
		with shapes may struggle to explain what
	Teacher actions: other possible questions to ask	they are seeing or may be unable to draw
	include, what is alike; what is different; do the	what they see. Also, have students draw
	shapes have the same number of sides; do the	each shape and show how they are
	shapes have the same number of angles.	different or how they are alike. Use pattern blocks, buttons, blocks.
K.GM.A.2		pattern blocks, buttons, blocks.
11.0141.71.2	How do we tell time? What tools do we use to find	Many students believe they can tell time
	out what time it is?	because they can "read" the time on a
		digital display. The goal here is to begin
		developing understanding of clocks and
		telling time. Encourage students to locate
		clocks throughout the school.
K.GM.B.3		
	What is today? What is tomorrow? Do you	Young students struggle with these
	remember what day it was yesterday?	concepts, especially yesterday and
		tomorrow. Reviewing yesterday, today, and tomorrow can be done daily. Talk
		about holidays and when they occur.
		What day is their birthday on?
K.GM.B.4		
	Tell me the difference between the look of a quarter	After learning the attributes of coins, the
	and a penny.	student can identify a coin when shown.
V CM D F		
K.GM.B.5		

Code	Sample Stem	Explanation
Code	Find a triangle in the classroom.	Take students on a shape walk. Find
	Teacher actions: use other shapes, e.g., a rectangle, point to a circle, play "I spy a (name a shape)" and encourage students to find it. How many can they locate?	shapes outside near the building. If you journal, give them an opportunity to draw something they have seen in their journal. Find shapes in the building. Encourage them to look at patterns on the floor, on the walls.
K.GM.C.6		tile walls.
K.GM.C.7	Use the design below and put an x under the design. Teacher actions: provide students with a simple design or this design to place an x under the design. Other options for students to do include putting a circle over the design, draw a check mark on top of, over, under, beside, next to, on, over.	These activities may include color and shapes. For example, put a green x under the picture. Children will have difficulty following directions if they do not recognize and respond to these words. They may also experience frustration collecting materials when oral directions are given.
	Sort these shapes into those with 3 corners and those with more than 3 corners.	Encourage students to use the attributes they have explored to sort shapes with like attributes. Use mathematical language in conjunction with the more common words the students use to encourage the familiarity of more formal terms but do not expect students to use them at this time.
K.GM.C.8		
	Draw this shape.	Students could also model a given 2-D shape using clay or play dough or other manipulatives.
K.GM.C.9		
K.GM.C.10	Using pattern blocks, how many ways can you put these two triangles together to form a new shape?	
K.DS.A.1	Put the given set of objects into like categories. How many objects are in each category? Teacher action: provide students with a set of objects like attribute blocks, buttons, or leaves for student use.	Given a set of objects that can be classified by category (such as attribute blocks, buttons, leaves, etc.) student puts the items into like categories and gives a accurate count for each category.
K.DJ.A.I	Using your two categories from before, how many more red shapes do you have than blue shapes?	Use this activity in conjunction with the one for K.DS.A.1. This links well so after
V DC A 2	Teacher action: adjust question to match or fit the given object sets you provide students.	students classify items by category, they can make comparison statements regarding the count of the different categories, i.e., there are more buttons with 4 holes than 2 holes, there are fewer red shapes than blue shapes.
K.DS.A.2		